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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,648	12/10/2001	Noriyoshi Shida	Q67621	2208	
75	7590 02/25/2005			EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			JOLLEY, KIRSTEN		
Washington, D	nia Avenue, N.W. C 20037-3202		ART UNIT PAPER NUMBER 1762		
,					
			DATE MAILED: 02/25/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/006,648	SHIDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kirsten C Jolley	1762			
The MAILING DATE of this commun	nication appears on the cove	sheet with the correspondence ac	ddress		
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this com - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event, how nunication. 30) days, a reply within the statutory mitatutory period will apply and will expire y will, by statute, cause the application to	ever, may a reply be timely filed nimum of thirty (30) days will be considered time SIX (6) MONTHS from the mailing date of this of become ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) file	ed on <u>14 December 2004</u> .				
2a)☐ This action is FINAL.	2b)⊠ This action is non-fin	al.			
3) Since this application is in condition	for allowance except for for	mal matters, prosecution as to the	e merits is		
closed in accordance with the pract	ice under Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-5,15 and 23-25</u> is/are pe	nding in the application.				
4a) Of the above claim(s) is/a	re withdrawn from consider	ation.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-5,15 and 23-25</u> is/are rej	ected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restrict	ction and/or election require	ment.			
Application Papers					
9)☐ The specification is objected to by th	e Examiner.				
10)☐ The drawing(s) filed on is/are	: a)□ accepted or b)□ ob	ected to by the Examiner.			
Applicant may not request that any obje	ction to the drawing(s) be held	in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including	g the correction is required if th	e drawing(s) is objected to. See 37 C	FR 1.121(d).		
11)☐ The oath or declaration is objected t	o by the Examiner. Note the	attached Office Action or form P	TO-152.		
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim	for foreign priority under 35	U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
 1. ☐ Certified copies of the priority 	documents have been rece	ived.			
2. Certified copies of the priority documents have been received in Application No					
	•	eve been received in this National	Stage		
application from the Internation	*				
* See the attached detailed Office action	in for a list of the certified co	pies not received.			
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (F 		Interview Summary (PTO-413) Paper No(s)/Mail Date			
2) Notice of Draftsperson's Patent Drawing Review (F 3) Information Disclosure Statement(s) (PTO-1449 or		Notice of Informal Patent Application (PTC	O-152)		
Paper No(s)/Mail Date <u>7/29/04</u> .		Other:			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail D	ate 20050222		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 14, 2004 has been entered.

Drawings

2. The drawings were received on December 14, 2004. These drawings are accepted.

Response to Arguments

- 3. The 35 USC 102 rejections over JP 10-289489 A, Komaki et al., Kikuchi '985, and Kikuchi '349 have been withdrawn in response to Applicant's amendments to claim 1 requiring that the film forming liquid is supplied directly in contact with an outer peripheral face of the film forming jig. Support for the amended limitation is illustrated in the drawings of the specification.
- 4. Applicant's arguments regarding the Plows et al. and JP 1-195250 A references filed December 14, 2004 have been fully considered but they are not persuasive. Applicant argues that the cited references do not disclose a structure which supplies the film forming liquid directly to the outer peripheral face of the film forming jig. Applicant argues that the liquid is

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supplied directly to the face 2b (as shown in Figures 1A and 2B), which is provided at the outer periphery of the jig, and thus the supply portion is also provided at this face 2b. The Examiner acknowledges that the references having a ring-shaped jig, and therefore an outer peripheral face 2b as illustrated in Figures 1A and 2B, do not teach supplying the film forming liquid directly to face 2b, and therefore the rejections over those references have been withdrawn. However, with respect to the Plows et al. reference, which has a conical-shaped jig, Applicant's specification itself teaches that the outer peripheral face of a conical jig is the downwardly-sloped surface 22b (as illustrated in Figures 7 and 8B and discussed on page 17). It is the Examiner's position that the film forming liquid in Plows et al.'s apparatus is supplied directly to the downwardly-sloped surface of the conical jig, or the jig's outer peripheral face. Figure 1 of Plows et al. illustrates that the film forming liquid is supplied at the apex of the cone, however the applicator is illustrated as having a wider diameter than the apex of the cone. Therefore it is the Examiner's position that some of the liquid is necessarily supplied directly to the downwardly-sloping surface of the conical jig, or the outer peripheral face.

Similarly, with respect to the JP 11-195250 reference, the outer peripheral face of the jig illustrated in Figure 4 would be the upper, downwardly-sloping surface of the circular jig.

Figure 3 illustrates that the film forming liquid is supplied directly to that surface, the outer peripheral face.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 6. Claims 1-2, 4, 15, 23, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Plows et al. (US 4,075,974).
- 7. Plows et al. discloses a film forming apparatus comprising a rotating unit (spindle 7) for rotating a substrate (disk 15), and a film forming jig (distributor 31) which is placed on the disk substrate, whereby film forming liquid is supplied to an outer periphery of the film forming jig and the rotation unit is rotated to form a film (col. 3, lines 21-32 and 50-66). When the substrate and jig are rotated together with film forming liquid thereon, the film forming liquid will spread over the surface and down the side of the jig. Applicant's specification teaches that the outer peripheral face of a conical jig is the downwardly-sloped surface 22b (as illustrated in Figures 7 and 8B and discussed on page 17). It is the Examiner's position that the film forming liquid in Plows et al.'s apparatus is supplied directly to the downwardly-sloped surface of the conical jig, or the jig's outer peripheral face. Figure 1 of Plows et al. illustrates that the film forming liquid is supplied at the apex of the cone, however the applicator is illustrated as having a wider diameter than the apex of the cone. Therefore it is the Examiner's position that some of the liquid is necessarily supplied directly to the downwardly-sloping surface of the conical jig, or the outer peripheral face.

As to claims 2 and 4, the substantially conical jig/distributor 31 illustrated in Figure 1 has a thickness larger than that of the film formed.

As to claim 15, it is well settled that the intended uses of and the particular material used in a coating apparatus have no significance in determining patentability of apparatus claims. *Ex parte Thibault*, 164 USPQ 666 (Bd. Pat. App. 1969).

As to claims 23 and 25, the outer peripheral face of Plows et al.'s conical jig is a peripheral side surface of the jig, and the supply portion is disposed directly adjacent to the peripheral side surface.

8. Claims 1-5, 15, and 23-25 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 11-195250 A.

JP '250 discloses a film forming apparatus comprising a rotating unit for rotating a substrate 3, and a film forming jig 2 which is placed on the substrate, whereby liquid is applied to an outer periphery of the film forming jig as illustrated in Figure 3 and the rotation unit is rotated to form a film. When the substrate and jig are rotated together with film forming liquid thereon, the film forming liquid will spread over the surface and down the side of the jig. The outer peripheral face of the jig illustrated in Figure 4 would be the upper, downwardly-sloping surface of the circular jig. Figure 3 illustrates that the film forming liquid is supplied directly to that surface, the outer peripheral face.

As to claim 2, Figure 3 also illustrates that a thickness of the film forming jig 2 is larger than that of the film 1. As to claims 3-5, it is the Examiner's position that film forming jig 2 of Figure 4 may be considered to have a *substantially* conical shape, *substantially* cylindrical shape, or *substantially* truncated conical shape.

As to claim 15, the substrate is an optical disc substrate.

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As to claims 23-25, the outer peripheral face of JP '250's jig 2 of Figure 4 is a peripheral side surface of the jig, and the supply portion is disposed directly adjacent to the peripheral side surface as illustrated in Figure 3. Since there is not an upper surface of the film forming jig separate from the outer peripheral face, it is the Examiner's position that the apparatus of JP '250 meets the limitation of claim 24.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kirsten C Jolley whose telephone number is 571-272-1421. The examiner can normally be reached on Monday to Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P Beck can be reached on 571-272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 1762